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## *Breast and Cervical Cancer Screening*

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### **NO MAMMOGRAM**

*Definition: Women respondents, ages 40 and older, who have not had a mammogram in the past two years.*

### **Prevalence of No Mammogram**

- South Dakota 24.0%
- Nationwide median 25.3%

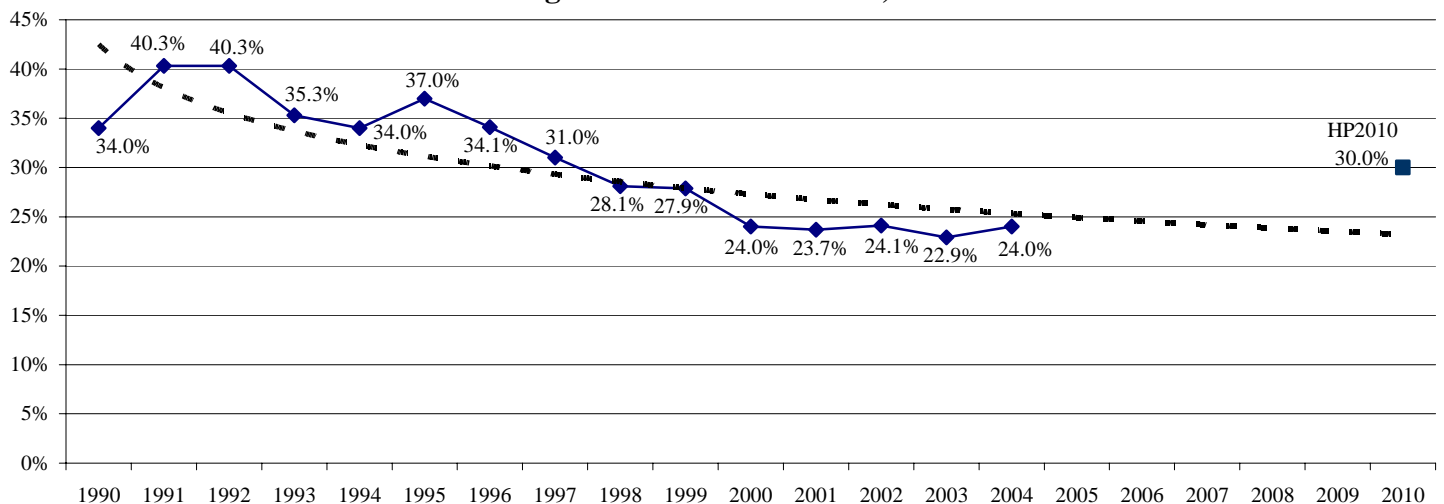
### **Healthy People 2010 Objective**

*Decrease the proportion of women aged 40 years and older who have not received a mammogram within the preceding 2 years to 30 percent.*

### **Trend Analysis**

Overall, the percent of women respondents who have not had a mammogram in the past two years has been decreasing since the question was first asked in 1990. Since 1998, South Dakota has met the *Healthy People 2010 Objective* of 30 percent. South Dakota continues to decrease the percent of women who have not had a mammogram in the past two years holding between 22 and 24 percent for the last five years.

**Figure 21**  
**Percent of Women Respondents, Ages 40 and Older, Who Have Not Had a Mammogram in the Past 2 Years, 1990-2004**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 1990-2004

### **Demographics**

**Age** Lack of mammograms generally decreases as age increases until the 75 and older age group is reached. A significant increase in the lack of mammograms is shown at this age group.

**Race** There are no significant racial differences observed from the available data.

<b>Region</b>	The American Indian counties region exhibits a very high prevalence of those without a mammogram in the past two years, while the southeast and northeast regions show a very low prevalence.
<b>Household Income</b>	Mammogram insufficiency seems to generally decrease as household income increases although the data tend to fluctuate somewhat.
<b>Education</b>	Those who have an eighth grade or less education demonstrate a very high prevalence for lack of mammograms, while those with a college education show a very low prevalence. Mammogram insufficiency decreases as education increases. This is shown by a steady decline with no significant decreases between education levels.
<b>Employment Status</b>	Those who are self-employed exhibit a very high prevalence of mammogram insufficiency, while those who are retired show a very low prevalence.
<b>Marital Status</b>	Those who are divorced, separated, or have never been married exhibit a very high prevalence of mammogram insufficiency, while those who are married show a very low prevalence.

**Table 27**  
**Women Respondents, Ages 40 and Older, Who Have Not Had a Mammogram in the Past 2 Years, 2004**

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Total</b>	<b>2,660</b>	<b>24.0</b>	<b>(22.2-26.0)</b>	-	-	-	<b>2660</b>	<b>24.0</b>	<b>(22.2-26.0)</b>
<b>Age</b>									
18-24	-	-	-	-	-	-	-	-	-
25-34	-	-	-	-	-	-	-	-	-
35-44	329	37.5	(31.6-43.8)	-	-	-	329	37.5	(31.6-43.8)
45-54	707	22.9	(19.6-26.6)	-	-	-	707	22.9	(19.6-26.6)
55-64	557	21.1	(17.4-25.4)	-	-	-	557	21.1	(17.4-25.4)
65-74	512	15.6	(12.5-19.2)	-	-	-	512	15.6	(12.5-19.2)
75+	555	24.2	(20.4-28.5)	-	-	-	555	24.2	(20.4-28.5)
<b>Race</b>									
White	2,428	23.7	(21.8-25.8)	-	-	-	2,428	23.7	(21.8-25.8)
American Indian	161	28.4	(19.2-39.7)	-	-	-	161	28.4	(19.2-39.7)
<b>Region</b>									
Southeast	620	21.6	(18.1-25.5)	-	-	-	620	21.6	(18.1-25.5)
Northeast	636	22.0	(18.7-25.7)	-	-	-	636	22.0	(18.7-25.7)
Central	533	23.0	(19.2-27.3)	-	-	-	533	23.0	(19.2-27.3)
West	614	29.3	(25.5-33.4)	-	-	-	614	29.3	(25.5-33.4)
American Indian Counties	257	33.3	(27.2-40.0)	-	-	-	257	33.3	(27.2-40.0)
<b>Household Income</b>									
Less than \$10,000	146	41.3	(32.0-51.3)	-	-	-	146	41.3	(32.0-51.3)
\$10,000-\$14,999	222	34.4	(27.1-42.6)	-	-	-	222	34.4	(27.1-42.6)
\$15,000-\$19,999	251	33.5	(27.2-40.4)	-	-	-	251	33.5	(27.2-40.4)
\$20,000-\$24,999	322	23.1	(17.9-29.3)	-	-	-	322	23.1	(17.9-29.3)
\$25,000-\$34,999	384	28.0	(23.0-33.6)	-	-	-	384	28.0	(23.0-33.6)
\$35,000-\$49,999	398	21.8	(17.3-27.1)	-	-	-	398	21.8	(17.3-27.1)
\$50,000-\$74,999	326	18.9	(14.4-24.4)	-	-	-	326	18.9	(14.4-24.4)
\$75,000+	246	20.4	(15.4-26.5)	-	-	-	246	20.4	(15.4-26.5)
<b>Education</b>									
8th Grade or Less	118	36.8	(27.4-47.2)	-	-	-	118	36.8	(27.4-47.2)
Some High School	144	32.8	(23.4-43.7)	-	-	-	144	32.8	(23.4-43.7)
High School or G.E.D.	924	24.7	(21.7-28.1)	-	-	-	924	24.7	(21.7-28.1)
Some Post-High School	784	24.2	(20.8-28.0)	-	-	-	784	24.2	(20.8-28.0)
College Graduate	687	19.7	(16.6-23.4)	-	-	-	687	19.7	(16.6-23.4)

**Table 27 (continued)**  
**Women Respondents, Ages 40 and Older, Who Have Not Had a Mammogram in the Past 2 Years, 2004**

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Employment Status</b>									
Employed for Wages	1,180	24.2	(21.4-27.2)	-	-	-	1,180	24.2	(21.4-27.2)
Self-employed	208	32.1	(25.0-40.1)	-	-	-	208	32.1	(25.0-40.1)
Unemployed	*	*	*	-	-	-	*	*	*
Homemaker	180	20.1	(14.0-28.0)	-	-	-	180	20.1	(14.0-28.0)
Student	*	*	*	-	-	-	*	*	*
Retired	949	20.6	(17.9-23.7)	-	-	-	949	20.6	(17.9-23.7)
Unable to Work	*	*	*	-	-	-	*	*	*
<b>Marital Status</b>									
Married/Unmarried Couple	1,467	21.0	(18.7-23.5)	-	-	-	1,467	21.0	(18.7-23.5)
Divorced/Separated	355	34.2	(28.4-40.6)	-	-	-	355	34.2	(28.4-40.6)
Widowed	703	27.1	(23.4-31.0)	-	-	-	703	27.1	(23.4-31.0)
Never Married	131	39.0	(30.4-48.4)	-	-	-	131	39.0	(30.4-48.4)

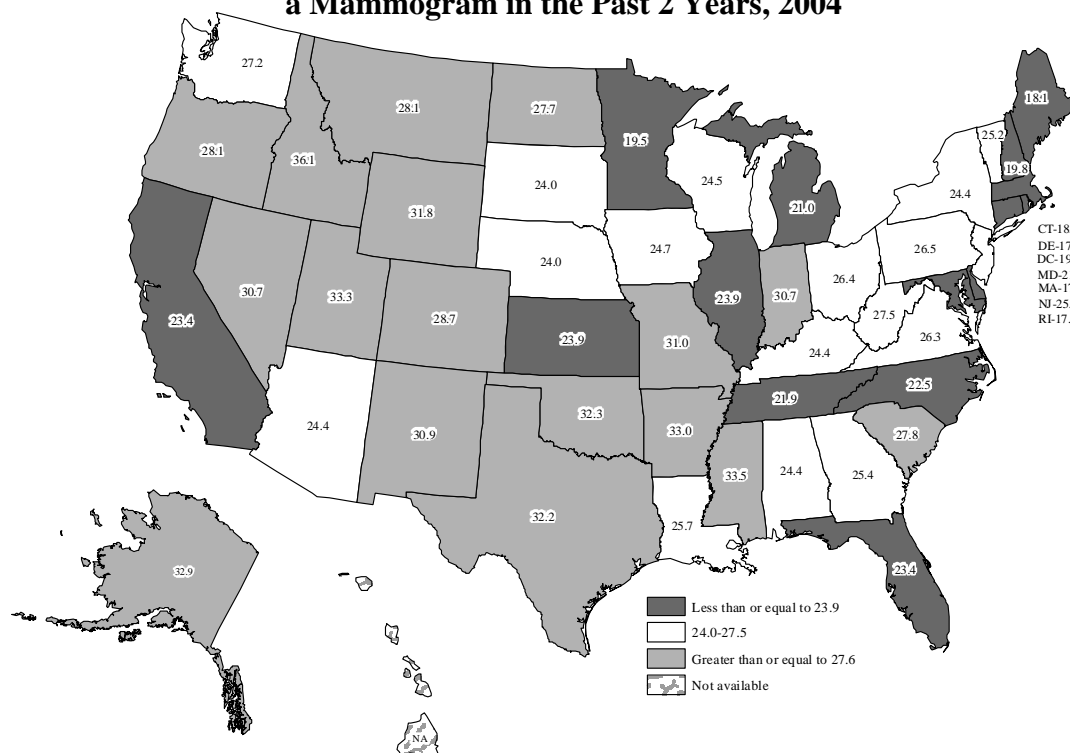
Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

## National Statistics

The national median for women respondents who have not had a mammogram in the past two years was 25.3 percent. South Dakota had 24 percent of women respondents who have not had a mammogram in the past two years. Delaware had the lowest percent of women respondents who have not had a mammogram in the past two years with 17.5 percent, while Idaho had the highest percent of women respondents who have not had a mammogram in the past two years with 36.1 percent.

**Figure 22**  
**Nationally, Women Respondents, Ages 40 and Older, Who Have Not Had a Mammogram in the Past 2 Years, 2004**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

## Further Analysis

Following are data illustrating the percent of those women who have not had a mammogram in the past two years for various health behaviors and conditions. For example, 66.9 percent of women respondents who stated they have no health insurance have not had a mammogram in the past two years, while 22.9 percent of women respondents who have health insurance have not had a mammogram in the past two years.

<b>Table 28</b> <b>No Mammogram, Ages 40 and Older, in Past 2 Years for Selected Health Behaviors and Conditions, 2004</b>			
<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No Mammogram</b>	<b>95% CI</b>
Fair or Poor Health Status	506	28.7	24.2-33.7
Excellent, Very Good, or Good Health Status	2,147	23.0	21.0-25.1
Physical Health Not Good for 30 Days of the Past 30	215	27.4	21.0-34.9
Physical Health Not Good for 0-29 Days of the Past 30	2,414	23.8	21.9-25.9
Mental Health Not Good for 20-30 Days of the Past 30	165	26.2	19.2-34.6
Mental Health Not Good for 0-19 Days of the Past 30	2,465	23.9	21.9-25.9
Usual Activities Unattainable for 10-30 Days of the Past 30	186	31.2	23.8-39.5
Usual Activities Unattainable for 0-9 Days of the Past 30	2,464	23.5	21.6-25.5
Obese (BMI = 30.0+)	678	23.0	19.5-27.0
Overweight (BMI = 25.0-29.9)	852	23.3	20.1-26.8
Recommended Weight (BMI = 18.5-24.9)	953	24.1	21.0-27.4
No Leisure Time Physical Activity	631	28.7	24.7-33.2
Leisure Time Physical Activity	2,029	22.6	20.6-24.8
Current Smoker	435	41.5	36.0-47.2
Former Smoker	621	21.9	18.4-25.8
Never Smoked	1,599	20.5	18.3-22.9
Drank Alcohol in Past 30 Days	1,154	19.4	16.9-22.2
No Alcohol in Past 30 Days	1,492	28.0	25.3-30.8
Binge Drinker	120	35.1	25.7-45.7
Not a Binge Drinker	2,520	23.3	21.4-25.3
Heavy Drinker	*	*	*
Not a Heavy Drinker	2,567	23.8	21.9-25.8
No Clinical Breast Exam within Past Two Years	542	69.6	64.8-74.0
Clinical Breast Exam within Past Two Years	2,093	13.0	11.3-14.8
Insufficient Cervical Cancer Screening	342	75.7	70.3-80.4
Sufficient Cervical Cancer Screening	1,420	16.8	14.6-19.3
No Blood Stool Test within Past Two Years (50+)	1,452	26.4	23.8-29.1
Blood Stool Test within Past Two Years (50+)	525	6.1	4.4-8.5
Never Had Sigmoidoscopy or Colonoscopy (50+)	956	29.5	26.2-33.0
Ever Had Sigmoidoscopy or Colonoscopy (50+)	1,036	12.8	10.8-15.2
Haven't Been to the Dentist in the Past 12 Months	756	37.8	33.8-42.0
Been to the Dentist in the Past 12 Months	1,899	19.3	17.3-21.5
Not Taking any Precautions Against West Nile Virus	787	26.9	23.4-30.8
Taking Precautions Against West Nile Virus	1,823	22.8	20.6-25.1
No Health Insurance (18-64)	122	66.9	56.8-75.6
Health Insurance (18-64)	1,442	22.9	20.5-25.6
Employer Based Health Insurance Coverage (18-64)	1,033	21.2	18.4-24.3
Private Health Insurance Plan (18-64)	199	25.6	19.0-33.5
Medicare (18-64)	*	*	*
Medicaid or Medical Assistance (18-64)	*	*	*
The Military, CHAMPUS, TriCare, or the VA (18-64)	*	*	*
The Indian Health Service (18-64)	*	*	*
No Flu Shot (65+)	250	29.7	23.9-36.3
Flu Shot (65+)	815	17.8	15.0-20.9

**Table 28 (continued)**  
**No Mammogram, Ages 40 and Older, in Past 2 Years for Selected Health Behaviors and Conditions, 2004**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No Mammogram</b>	<b>95% CI</b>
No Pneumonia Shot (65+)	354	23.8	19.1-29.2
Pneumonia Shot (65+)	702	18.6	15.6-22.0
Diabetes	278	22.1	17.1-28.1
No Diabetes	2,382	24.2	22.2-26.3
Current Asthma	226	22.5	16.6-29.8
Former Asthma	*	*	*
Never Had Asthma	2,362	24.0	22.0-26.1
Previously Had a Heart Attack	159	31.7	23.9-40.8
Never Had a Heart Attack	2,466	23.5	21.6-25.5
Have Angina or Coronary Heart Disease	193	23.1	17.1-30.4
Do not Have Angina or Coronary Heart Disease	2,421	23.8	21.9-25.9
Previously Had a Stroke	116	28.2	19.9-38.4
Never Had a Stroke	2,506	23.7	21.8-25.8
Physical, Mental, or Emotional Disability	652	25.5	21.9-29.6
No Physical, Mental, or Emotional Disability	1,988	23.6	21.4-25.9
Disability with Special Equipment Needed	268	30.3	24.2-37.1
No Disability with Special Equipment Needed	2,374	23.4	21.5-25.5
Four or More Hours of TV Watched per Day	731	26.9	23.2-30.9
Less Than Four Hours of TV Watched per Day	1,870	23.0	20.8-25.3
Sick from Poor Indoor Air Quality in Past Year	438	23.9	19.5-28.9
Not Sick from Poor Indoor Air Quality in Past Year	2,201	24.1	22.1-26.3
Sick from Outdoor Air Pollution in Past Year	207	31.0	24.2-38.8
Not Sick from Outdoor Air Pollution in Past Year	2,445	23.4	21.5-25.4
Firearm in Household	1,252	22.6	20.0-25.4
No Firearms in Household	1,337	25.7	23.0-28.6
Loaded and Unlocked Firearm in Household	*	*	*
No Loaded and Unlocked Firearms in Household	2,523	24.0	22.1-26.0
No Birth Control (females 18-44 & males 18-59)	*	*	*
Birth Control (females 18-44 & males 18-59)	207	38.5	31.0-46.5
Never Been Tested for HIV (18-64)	1,254	25.4	22.7-28.4
Been Tested for HIV (18-64)	297	29.9	24.0-36.5
Sunburn in Past 12 Months	613	25.7	21.9-29.9
No Sunburn in Past 12 Months	2,043	23.3	21.3-25.6
Military Veteran	*	*	*
Not a Military Veteran	2,612	24.1	22.2-26.1

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

Table 29, on the next page, displays women respondents' most important reason for not having a mammogram in the past year. In 2004, women respondents stated the most important reason for not having a mammogram is procrastination with 30.8 percent. While in 2002 and 2003, women respondents stated the most important reason for not having a mammogram is that it was not needed/not necessary with 25.7 percent and 28.2 percent, respectively. However, in 2000 and 2001, women respondents stated the most important reason for not having a mammogram is that it was not recommended by doctor/doctor never said it was needed with 28.4 percent and 26.4 percent, respectively.

**Table 29**  
**Women Respondents' Most Important Reason for Not Having a Mammogram in Past Year, 2000-2004**

	2004	2003	2002	2001	2000
<b>Number of respondents</b>	<b>793</b>	<b>619</b>	<b>512</b>	<b>478</b>	<b>529</b>
Procrastination	30.8%	26.7%	NA	NA	NA
Not recommended by doctor/doctor never said it was needed	22.4%	19.3%	22.8%	26.4%	28.4%
Not needed/not necessary	22.0%	28.2%	25.7%	23.1%	28.0%
Cost	8.4%	9.6%	9.9%	5.7%	8.1%
No insurance to pay for it	2.9%	2.8%	3.1%	3.3%	2.2%
Never heard of mammogram	0.0%	0.4%	0.0%	0.0%	0.0%
Other	13.4%	13.0%	38.5%	41.5%	33.3%

Note: Procrastination was included in the "other" category from 2000 to 2002.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2000-2004

Since 2000, the majority of women respondents stated it was their idea to have a mammogram. The percent of women respondents who had said it was their idea had been decreasing since 2000 until 2004 when it increased from 52.5 percent in 2003 to 57 percent in 2004 as illustrated below in Table 30.

**Table 30**  
**Person Who Recommended the Mammogram, 2000-2004**

	2004	2003	2002	2001	2000
<b>Number of respondents</b>	<b>2,554</b>	<b>2,131</b>	<b>1,878</b>	<b>1,945</b>	<b>1,926</b>
Respondent's idea	57.0%	52.5%	56.9%	56.3%	57.7%
Doctor's idea	39.5%	44.1%	39.7%	41.1%	39.8%
Someone else's idea	3.5%	3.4%	3.4%	2.6%	2.4%

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2000-2004

## **NO CLINICAL BREAST EXAM**

*Definition: Women respondents who have not had a clinical breast exam in the past two years.*

### **Prevalence of No Clinical Breast Exam**

- South Dakota 17.6%
- There is no nationwide median for no clinical breast exam in the past two years

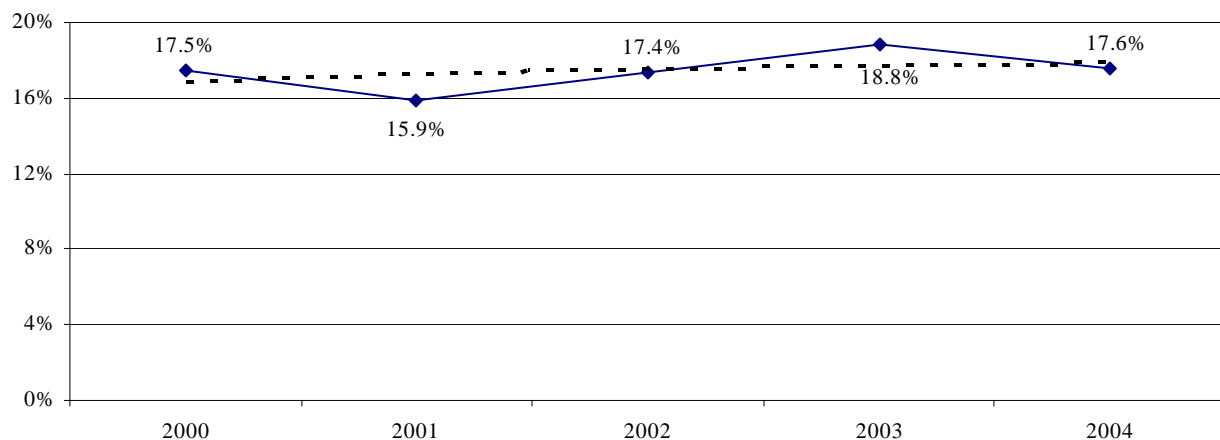
### **Healthy People 2010 Objective**

*There was no stated Healthy People 2010 Objective for no clinical breast exam in the past two years.*

### **Trend Analysis**

The percent of women respondents who have not had a clinical breast exam in the past two years had been increasing since its low of 15.9 percent in 2001. However, in 2004 there was a slight decrease.

**Figure 23**  
**Percent of Women Respondents Who Have Not Had  
a Clinical Breast Exam in the Past 2 Years, 2000-2004**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2000-2004

### **Demographics**

- Age** Failure to get a breast exam fluctuates as age increases. However, there is a significant decrease in the prevalence of lack of breast exams as the 25-34 age group is reached, and a significant increase as the 75 and older age group is reached.
- Race** American Indians exhibit a significantly higher prevalence of breast exam insufficiency than whites.
- Region** The American Indian counties region exhibits a very high prevalence of those without a breast exam in the past two years, while the southeast, northeast, and central regions show a very low prevalence.
- Household Income** Lack of breast exams seems to generally decrease as household income increases.

**Education** Breast exam insufficiency seems to generally decrease as education increases. This includes a significant decrease as the some post-high school education level is attained.

**Employment Status** Those who are retired and unable to work demonstrate a very high prevalence of breast exam insufficiency, while those who are employed for wages or a homemaker show a very low prevalence.

**Marital Status** Those who are married exhibit a significantly lower prevalence of breast exam insufficiency than all other marital status groups.

<b>Table 31</b>									
<b>Women Respondents Who Have Not Had a Clinical Breast Exam in the Past 2 Years, 2004</b>									
	<b>Total</b>			<b>Male</b>			<b>Female</b>		
	<b># Resp.</b>	<b>%</b>	<b>95% CI</b>	<b># Resp.</b>	<b>%</b>	<b>95% CI</b>	<b># Resp.</b>	<b>%</b>	<b>95% CI</b>
<b>Total</b>	<b>3,568</b>	<b>17.6</b>	<b>(16.1-19.2)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,568</b>	<b>17.6</b>	<b>(16.1-19.2)</b>
<b>Age</b>									
18-24	188	21.3	(15.0-29.2)	-	-	-	188	21.3	(15.0-29.2)
25-34	449	9.7	(7.1-13.1)	-	-	-	449	9.7	(7.1-13.1)
35-44	601	14.4	(11.5-17.8)	-	-	-	601	14.4	(11.5-17.8)
45-54	706	15.4	(12.7-18.6)	-	-	-	706	15.4	(12.7-18.6)
55-64	554	17.7	(14.2-21.8)	-	-	-	554	17.7	(14.2-21.8)
65-74	507	17.3	(14.0-21.2)	-	-	-	507	17.3	(14.0-21.2)
75+	549	31.1	(26.7-35.8)	-	-	-	549	31.1	(26.7-35.8)
<b>Race</b>									
White	3,175	17.0	(15.4-18.7)	-	-	-	3,175	17.0	(15.4-18.7)
American Indian	268	27.4	(19.5-37.1)	-	-	-	268	27.4	(19.5-37.1)
<b>Region</b>									
Southeast	875	15.1	(12.5-18.2)	-	-	-	875	15.1	(12.5-18.2)
Northeast	829	17.7	(15.0-20.8)	-	-	-	829	17.7	(15.0-20.8)
Central	677	16.3	(13.1-20.1)	-	-	-	677	16.3	(13.1-20.1)
West	818	20.3	(17.0-24.1)	-	-	-	818	20.3	(17.0-24.1)
American Indian Counties	369	28.5	(22.6-35.4)	-	-	-	369	28.5	(22.6-35.4)
<b>Household Income</b>									
Less than \$10,000	204	31.8	(23.8-41.1)	-	-	-	204	31.8	(23.8-41.1)
\$10,000-\$14,999	265	29.5	(22.8-37.2)	-	-	-	265	29.5	(22.8-37.2)
\$15,000-\$19,999	313	23.3	(17.8-29.9)	-	-	-	313	23.3	(17.8-29.9)
\$20,000-\$24,999	408	18.7	(14.0-24.5)	-	-	-	408	18.7	(14.0-24.5)
\$25,000-\$34,999	540	21.4	(17.4-26.0)	-	-	-	540	21.4	(17.4-26.0)
\$35,000-\$49,999	569	14.2	(11.1-18.0)	-	-	-	569	14.2	(11.1-18.0)
\$50,000-\$74,999	502	9.0	(6.6-12.2)	-	-	-	502	9.0	(6.6-12.2)
\$75,000+	339	7.1	(4.8-10.4)	-	-	-	339	7.1	(4.8-10.4)
<b>Education</b>									
8th Grade or Less	125	31.2	(22.7-41.2)	-	-	-	125	31.2	(22.7-41.2)
Some High School	179	35.5	(25.2-47.4)	-	-	-	179	35.5	(25.2-47.4)
High School or G.E.D.	1,142	22.9	(19.8-26.3)	-	-	-	1,142	22.9	(19.8-26.3)
Some Post-High School	1,085	15.0	(12.7-17.7)	-	-	-	1,085	15.0	(12.7-17.7)
College Graduate	1,033	10.8	(8.9-13.0)	-	-	-	1,033	10.8	(8.9-13.0)
<b>Employment Status</b>									
Employed for Wages	1,790	14.1	(12.2-16.4)	-	-	-	1,790	14.1	(12.2-16.4)
Self-employed	281	18.6	(14.1-24.2)	-	-	-	281	18.6	(14.1-24.2)
Unemployed	*	*	*	-	-	-	*	*	*
Homemaker	284	13.3	(9.5-18.4)	-	-	-	284	13.3	(9.5-18.4)
Student	*	*	*	-	-	-	*	*	*
Retired	942	24.2	(21.2-27.4)	-	-	-	942	24.2	(21.2-27.4)
Unable to Work	104	29.3	(19.6-41.3)	-	-	-	104	29.3	(19.6-41.3)
<b>Marital Status</b>									
Married/Unmarried Couple	2,066	12.6	(11.1-14.3)	-	-	-	2,066	12.6	(11.1-14.3)
Divorced/Separated	458	22.7	(18.1-28.0)	-	-	-	458	22.7	(18.1-28.0)
Widowed	700	29.8	(26.1-33.8)	-	-	-	700	29.8	(26.1-33.8)
Never Married	335	29.1	(22.2-37.1)	-	-	-	335	29.1	(22.2-37.1)

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004



## **Further Analysis**

Following are data illustrating the percent of those women who have not had a clinical breast exam in the past two years for various health behaviors and conditions. For example, 28 percent of women respondents who stated they have fair or poor health status have not had a clinical breast exam in the past two years, while 15.8 percent of women respondents who have excellent, very good, or good health status had a clinical breast exam in the past two years.

<b>Table 32</b> <b>No Clinical Breast Exam in Past 2 Years for Selected Health Behaviors and Conditions, 2004</b>			
<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No Clinical Breast Exam</b>	<b>95% CI</b>
Fair or Poor Health Status	567	28.0	23.6-32.9
Excellent, Very Good, or Good Health Status	2,991	15.8	14.2-17.6
Physical Health Not Good for 30 Days of the Past 30	234	27.2	20.4-35.2
Physical Health Not Good for 0-29 Days of the Past 30	3,300	17.0	15.5-18.7
Mental Health Not Good for 20-30 Days of the Past 30	243	21.6	15.6-29.1
Mental Health Not Good for 0-19 Days of the Past 30	3,284	17.3	15.7-19.0
Usual Activities Unattainable for 10-30 Days of the Past 30	231	24.1	17.6-32.0
Usual Activities Unattainable for 0-9 Days of the Past 30	3,326	17.1	15.6-18.8
Obese (BMI = 30.0+)	864	17.2	14.2-20.7
Overweight (BMI = 25.0-29.9)	1,080	18.1	15.4-21.2
Recommended Weight (BMI = 18.5-24.9)	1,378	16.8	14.4-19.4
No Leisure Time Physical Activity	761	23.8	20.4-27.6
Leisure Time Physical Activity	2,806	16.0	14.3-17.9
Current Smoker	656	20.8	17.2-25.0
Former Smoker	754	15.4	12.5-18.8
Never Smoked	2,151	17.3	15.4-19.5
Drank Alcohol in Past 30 Days	1,672	12.0	10.3-13.9
No Alcohol in Past 30 Days	1,875	23.4	20.9-26.0
Binge Drinker	259	11.3	7.6-16.5
Not a Binge Drinker	3,279	18.2	16.5-19.9
Heavy Drinker	111	9.3	5.2-15.8
Not a Heavy Drinker	3,424	17.9	16.3-19.6
No Mammogram within Past Two Years (40+ years old)	643	56.1	51.4-60.7
Mammogram within Past Two Years (40+ years old)	1,992	7.7	6.4-9.1
Insufficient Cervical Cancer Screening	390	80.0	73.8-85.0
Sufficient Cervical Cancer Screening	2,239	7.8	6.5-9.3
No Blood Stool Test within Past Two Years (50+)	1,442	25.1	22.6-27.8
Blood Stool Test within Past Two Years (50+)	521	8.8	6.4-11.9
Never Had Sigmoidoscopy or Colonoscopy (50+)	950	27.6	24.4-31.1
Ever Had Sigmoidoscopy or Colonoscopy (50+)	1,027	13.9	11.7-16.5
Haven't Been to the Dentist in the Past 12 Months	971	27.1	23.8-30.6
Been to the Dentist in the Past 12 Months	2,589	14.3	12.6-16.2
Not Taking any Precautions Against West Nile Virus	953	24.7	21.3-28.4
Taking Precautions Against West Nile Virus	2,541	15.1	13.4-16.9
No Health Insurance (18-64)	200	35.1	27.0-44.1
Health Insurance (18-64)	2,243	13.2	11.5-15.1
Employer Based Health Insurance Coverage (18-64)	1,592	11.4	9.6-13.6
Private Health Insurance Plan (18-64)	260	16.0	11.4-21.9
Medicare (18-64)	*	*	*
Medicaid or Medical Assistance (18-64)	*	*	*
The Military, CHAMPUS, TriCare, or the VA (18-64)	*	*	*
The Indian Health Service (18-64)	138	29.8	18.9-43.7

**Table 32 (continued)**  
**No Clinical Breast Exam in Past 2 Years for Selected Health Behaviors and Conditions,**  
**2004**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No Clinical Breast Exam</b>	<b>95% CI</b>
No Flu Shot (65+)	250	31.3	25.2-38.1
Flu Shot (65+)	804	23.0	19.8-26.7
No Pneumonia Shot (65+)	352	31.7	26.1-37.8
Pneumonia Shot (65+)	694	21.4	18.2-25.1
Diabetes	295	19.8	14.9-25.7
No Diabetes	3,272	17.5	15.9-19.2
Current Asthma	294	13.2	9.4-18.3
Former Asthma	104	18.6	11.0-29.9
Never Had Asthma	3,156	18.0	16.4-19.8
Previously Had a Heart Attack	160	35.2	27.0-44.3
Never Had a Heart Attack	3,352	16.8	15.3-18.5
Have Angina or Coronary Heart Disease	199	28.1	21.5-35.8
Do not Have Angina or Coronary Heart Disease	3,304	17.0	15.4-18.7
Previously Had a Stroke	119	26.1	18.2-35.8
Never Had a Stroke	3,389	17.3	15.7-19.0
Physical, Mental, or Emotional Disability	731	21.8	18.3-25.8
No Physical, Mental, or Emotional Disability	2,812	16.6	14.9-18.4
Disability with Special Equipment Needed	280	32.3	26.2-39.1
No Disability with Special Equipment Needed	3,265	16.6	15.0-18.3
Four or More Hours of TV Watched per Day	886	22.3	19.2-25.7
Less Than Four Hours of TV Watched per Day	2,593	16.2	14.4-18.1
Sick from Poor Indoor Air Quality in Past Year	644	17.0	13.4-21.4
Not Sick from Poor Indoor Air Quality in Past Year	2,894	17.7	16.0-19.5
Sick from Outdoor Air Pollution in Past Year	269	16.4	12.0-22.0
Not Sick from Outdoor Air Pollution in Past Year	3,287	17.7	16.1-19.5
Firearm in Household	1,678	14.7	12.7-16.9
No Firearms in Household	1,798	20.5	18.1-23.1
Loaded and Unlocked Firearm in Household	*	*	*
No Loaded and Unlocked Firearms in Household	3,393	17.5	15.9-19.2
No Birth Control (females 18-44 & males 18-59)	*	*	*
Birth Control (females 18-44 & males 18-59)	765	10.0	7.9-12.7
Never Been Tested for HIV (18-64)	1,755	16.6	14.4-19.1
Been Tested for HIV (18-64)	676	13.0	10.3-16.2
Sunburn in Past 12 Months	1,099	14.4	11.8-17.5
No Sunburn in Past 12 Months	2,463	19.4	17.6-21.4
Military Veteran	*	*	*
Not a Military Veteran	3,487	17.6	16.1-19.3

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

## **INSUFFICIENT CERVICAL CANCER SCREENING**

**Definition:** Women respondents, ages 18 and older, who have not received a Pap test within the past three years.

### **Prevalence of Insufficient Cervical Cancer Screening**

- South Dakota 12.7%
- Nationwide median 14.0%

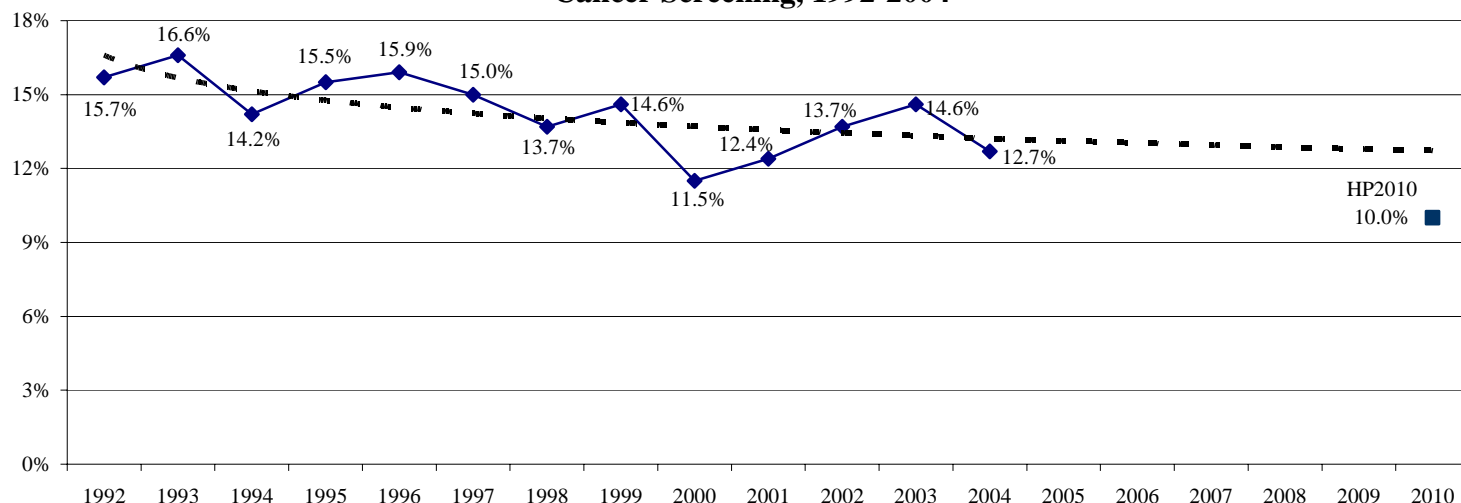
### **Healthy People 2010 Objective**

*Decrease the proportion of women aged 18 years and older who have not received a Pap test in the preceding 3 years to 10 percent.*

### **Trend Analysis**

Overall, the percent of women respondents who have had insufficient cervical cancer screening had been increasing since its low of 11.5 percent in 2000. However, in 2004 there was a sharp decrease to 12.7 percent. South Dakota has not met the *Healthy People 2010 Objective* of 10 percent.

**Figure 24**  
**Percent of Women Respondents Who Had Insufficient Cervical Cancer Screening, 1992-2004**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 1992-2004

### **Demographics**

**Age** The prevalence of those not getting a Pap smear within the past three years generally increases as age increases. This includes significant increases as both the 35-44 and 75 and older age groups are reached. However, it should be noted that there is a significant decrease from the 18-24 to the 25-34 age group.

**Race** There are no significant racial differences observed from the available data.

**Region** There are no significant regional differences exhibited by the available data.

<b>Household Income</b>	Insufficient cervical cancer screening generally decreases as household income increases.
<b>Education</b>	Insufficient cervical cancer screening decreases as education increases. This includes a significant decrease as the some post-high school education level is attained.
<b>Employment Status</b>	Those who are retired demonstrate a significantly higher prevalence of insufficient cervical cancer screening than those who are employed for wages, self-employed, or homemakers.
<b>Marital Status</b>	Those who are widowed or never been married exhibit a very high prevalence of insufficient cervical cancer screening, while those who are married show a very low prevalence.

<b>Table 33</b> <b>Women Respondents Who Had Insufficient Cervical Cancer Screening, 2004</b>									
	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Total</b>	<b>2,647</b>	<b>12.7</b>	<b>(11.2-14.5)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,647</b>	<b>12.7</b>	<b>(11.2-14.5)</b>
<b>Age</b>									
18-24	188	13.3	(8.1-21.3)	-	-	-	188	13.3	(8.1-21.3)
25-34	437	3.4	(2.0-5.8)	-	-	-	437	3.4	(2.0-5.8)
35-44	542	10.1	(7.7-13.3)	-	-	-	542	10.1	(7.7-13.3)
45-54	525	11.8	(9.0-15.2)	-	-	-	525	11.8	(9.0-15.2)
55-64	352	12.3	(9.0-16.4)	-	-	-	352	12.3	(9.0-16.4)
65-74	282	18.5	(14.1-23.8)	-	-	-	282	18.5	(14.1-23.8)
75+	321	36.0	(30.2-42.1)	-	-	-	321	36.0	(30.2-42.1)
<b>Race</b>									
White	2,326	12.6	(11.0-14.5)	-	-	-	2,326	12.6	(11.0-14.5)
American Indian	227	12.2	(7.3-19.7)	-	-	-	227	12.2	(7.3-19.7)
<b>Region</b>									
Southeast	635	11.5	(8.7-15.2)	-	-	-	635	11.5	(8.7-15.2)
Northeast	601	13.9	(11.0-17.3)	-	-	-	601	13.9	(11.0-17.3)
Central	492	14.1	(10.5-18.6)	-	-	-	492	14.1	(10.5-18.6)
West	627	12.4	(10.0-15.4)	-	-	-	627	12.4	(10.0-15.4)
American Indian Counties	292	15.5	(11.1-21.3)	-	-	-	292	15.5	(11.1-21.3)
<b>Household Income</b>									
Less than \$10,000	145	21.9	(14.8-31.2)	-	-	-	145	21.9	(14.8-31.2)
\$10,000-\$14,999	172	28.0	(20.3-37.1)	-	-	-	172	28.0	(20.3-37.1)
\$15,000-\$19,999	212	20.5	(14.5-28.1)	-	-	-	212	20.5	(14.5-28.1)
\$20,000-\$24,999	281	14.9	(10.6-20.4)	-	-	-	281	14.9	(10.6-20.4)
\$25,000-\$34,999	399	13.9	(10.3-18.6)	-	-	-	399	13.9	(10.3-18.6)
\$35,000-\$49,999	440	8.5	(5.9-12.1)	-	-	-	440	8.5	(5.9-12.1)
\$50,000-\$74,999	419	4.8	(3.1-7.5)	-	-	-	419	4.8	(3.1-7.5)
\$75,000+	276	4.1	(2.4-6.9)	-	-	-	276	4.1	(2.4-6.9)
<b>Education</b>									
8th Grade or Less	*	*	*	-	-	-	*	*	*
Some High School	123	32.8	(20.1-48.5)	-	-	-	123	32.8	(20.1-48.5)
High School or G.E.D.	786	16.6	(13.4-20.4)	-	-	-	786	16.6	(13.4-20.4)
Some Post-High School	812	10.2	(8.1-12.8)	-	-	-	812	10.2	(8.1-12.8)
College Graduate	840	7.2	(5.6-9.2)	-	-	-	840	7.2	(5.6-9.2)
<b>Employment Status</b>									
Employed for Wages	1,458	8.9	(7.0-11.1)	-	-	-	1,458	8.9	(7.0-11.1)
Self-employed	215	12.7	(8.8-18.1)	-	-	-	215	12.7	(8.8-18.1)
Unemployed	*	*	*	-	-	-	*	*	*
Homemaker	228	7.4	(4.6-11.7)	-	-	-	228	7.4	(4.6-11.7)
Student	*	*	*	-	-	-	*	*	*
Retired	537	28.7	(24.6-33.2)	-	-	-	537	28.7	(24.6-33.2)
Unable to Work	*	*	*	-	-	-	*	*	*

Table 33 (continued)									
Women Respondents Who Had Insufficient Cervical Cancer Screening, 2004									
	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Marital Status</b>									
Married/Unmarried Couple	1,584	7.6	(6.3-9.1)	-	-	-	1,584	7.6	(6.3-9.1)
Divorced/Separated	328	17.4	(13.0-22.9)	-	-	-	328	17.4	(13.0-22.9)
Widowed	425	33.0	(28.0-38.4)	-	-	-	425	33.0	(28.0-38.4)
Never Married	304	20.9	(14.5-29.3)	-	-	-	304	20.9	(14.5-29.3)

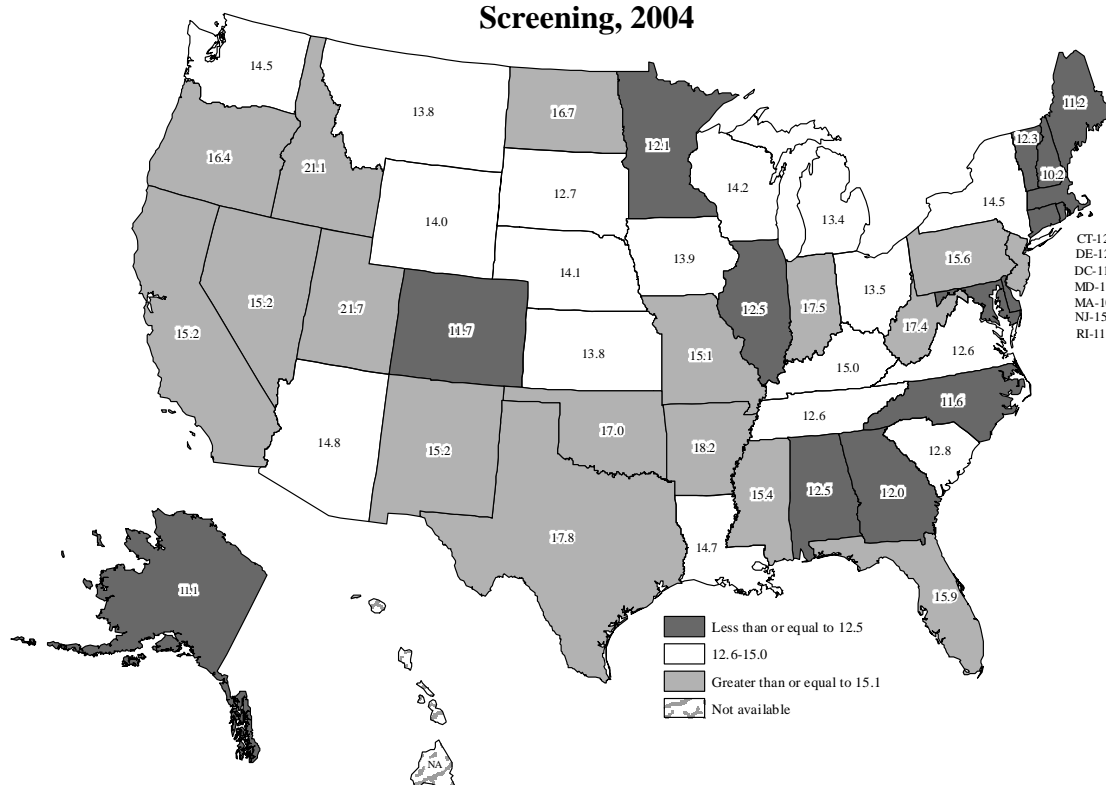
Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

## National Statistics

The national median for women respondents who had insufficient cervical cancer screening was 14 percent. South Dakota had 12.7 percent of women respondents who had insufficient cervical cancer screening. New Hampshire had the lowest percent of women respondents who had insufficient cervical cancer screening with 10.2 percent, while Utah had the highest percent of women respondents who had insufficient cervical cancer screening with 21.7 percent.

**Figure 25**  
**Nationally, Women Respondents Who Had Insufficient Cervical Cancer Screening, 2004**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004

## Further Analysis

Following are data illustrating the percent of those women who had insufficient cervical cancer screening for various health behaviors and conditions. For example, 26.0 percent of women respondents who stated they do not have health insurance have had insufficient cervical cancer screening, while 8.2 percent of women respondents who have health insurance have had insufficient cervical cancer screening.

**Table 34**  
**Insufficient Cervical Cancer Screening for Selected Health Behaviors and Conditions,**  
**2004**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% Insufficient Cervical Cancer Screening</b>	<b>95% CI</b>
Fair or Poor Health Status	333	24.2	18.7-30.7
Excellent, Very Good, or Good Health Status	2,308	11.4	9.8-13.2
Physical Health Not Good for 30 Days of the Past 30	126	30.6	20.5-42.8
Physical Health Not Good for 0-29 Days of the Past 30	2,501	12.0	10.5-13.8
Mental Health Not Good for 20-30 Days of the Past 30	166	13.6	8.4-22.1
Mental Health Not Good for 0-19 Days of the Past 30	2,457	12.7	11.1-14.5
Usual Activities Unattainable for 10-30 Days of the Past 30	136	17.4	10.7-26.9
Usual Activities Unattainable for 0-9 Days of the Past 30	2,506	12.5	10.9-14.3
Obese (BMI = 30.0+)	622	11.7	9.1-14.9
Overweight (BMI = 25.0-29.9)	755	12.9	10.1-16.2
Recommended Weight (BMI = 18.5-24.9)	1,089	12.2	9.8-15.1
No Leisure Time Physical Activity	535	19.4	15.9-23.4
Leisure Time Physical Activity	2,111	11.2	9.5-13.2
Current Smoker	517	13.5	10.4-17.4
Former Smoker	528	11.6	9.0-14.7
Never Smoked	1,599	12.9	10.8-15.3
Drank Alcohol in Past 30 Days	1,306	7.6	6.1-9.4
No Alcohol in Past 30 Days	1,325	18.5	15.8-21.5
Binge Drinker	225	6.4	3.9-10.4
Not a Binge Drinker	2,398	13.3	11.7-15.2
Heavy Drinker	*	*	*
Not a Heavy Drinker	2,532	12.9	11.3-14.7
No Mammogram within Past Two Years (40+ years old)	487	48.0	42.7-53.3
Mammogram within Past Two Years (40+ years old)	1,275	5.6	4.5-7.1
No Clinical Breast Exam within Past Two Years	493	59.4	53.4-65.0
Clinical Breast Exam within Past Two Years	2,136	3.0	2.2-4.1
No Blood Stool Test within Past Two Years (50+)	899	23.4	20.4-26.7
Blood Stool Test within Past Two Years (50+)	313	7.6	5.2-11.0
Never Had Sigmoidoscopy or Colonoscopy (50+)	661	24.6	21.0-28.5
Ever Had Sigmoidoscopy or Colonoscopy (50+)	558	13.2	10.5-16.3
Haven't Been to the Dentist in the Past 12 Months	698	21.8	18.5-25.6
Been to the Dentist in the Past 12 Months	1,944	9.6	8.0-11.7
Not Taking any Precautions Against West Nile Virus	698	19.8	16.2-23.8
Taking Precautions Against West Nile Virus	1,888	10.6	8.9-12.6
No Health Insurance (18-64)	161	26.0	18.6-35.0
Health Insurance (18-64)	1,838	8.2	6.7-10.1
Employer Based Health Insurance Coverage (18-64)	1,302	7.1	5.4-9.3
Private Health Insurance Plan (18-64)	214	15.2	8.8-25.0
Medicare (18-64)	*	*	*
Medicaid or Medical Assistance (18-64)	*	*	*
The Military, CHAMPUS, TriCare, or the VA (18-64)	*	*	*
The Indian Health Service (18-64)	126	12.6	7.4-20.6
No Flu Shot (65+)	153	43.3	34.8-52.3
Flu Shot (65+)	449	23.9	19.7-28.7
No Pneumonia Shot (65+)	219	31.6	25.0-39.1
Pneumonia Shot (65+)	379	26.2	21.6-31.4
Diabetes	185	15.5	10.4-22.5
No Diabetes	2,461	12.6	11.0-14.4

**Table 34 (continued)**  
**Insufficient Cervical Cancer Screening for Selected Health Behaviors and Conditions,**  
**2004**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% Insufficient Cervical Cancer Screening</b>	<b>95% CI</b>
Current Asthma	193	10.6	6.7-16.5
Former Asthma	*	*	*
Never Had Asthma	2,366	12.7	11.2-14.5
Previously Had a Heart Attack	*	*	*
Never Had a Heart Attack	2,507	12.2	10.6-14.0
Have Angina or Coronary Heart Disease	100	30.2	21.3-41.0
Do not Have Angina or Coronary Heart Disease	2,491	12.2	10.7-14.0
Previously Had a Stroke	*	*	*
Never Had a Stroke	2,537	12.6	11.0-14.3
Physical, Mental, or Emotional Disability	439	18.2	14.2-23.0
No Physical, Mental, or Emotional Disability	2,187	11.9	10.2-13.8
Disability with Special Equipment Needed	160	37.3	29.1-46.4
No Disability with Special Equipment Needed	2,468	11.7	10.1-13.5
Four or More Hours of TV Watched per Day	606	17.7	14.6-21.4
Less Than Four Hours of TV Watched per Day	1,968	11.6	9.8-13.7
Sick from Poor Indoor Air Quality in Past Year	475	14.0	10.0-19.3
Not Sick from Poor Indoor Air Quality in Past Year	2,153	12.5	10.9-14.3
Sick from Outdoor Air Pollution in Past Year	183	13.8	9.1-20.5
Not Sick from Outdoor Air Pollution in Past Year	2,452	12.7	11.1-14.5
Firearm in Household	1,283	10.9	8.8-13.3
No Firearms in Household	1,298	15.0	12.7-17.6
Loaded and Unlocked Firearm in Household	*	*	*
No Loaded and Unlocked Firearms in Household	2,518	12.8	11.2-14.5
No Birth Control (females 18-44 & males 18-59)	*	*	*
Birth Control (females 18-44 & males 18-59)	763	5.4	3.9-7.5
Never Been Tested for HIV (18-64)	1,404	12.0	9.8-14.7
Been Tested for HIV (18-64)	582	5.8	4.0-8.2
Sunburn in Past 12 Months	924	9.1	6.6-12.4
No Sunburn in Past 12 Months	1,717	15.2	13.3-17.2
Military Veteran	*	*	*
Not a Military Veteran	2,581	12.8	11.2-14.5

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2004